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-- file: TimeDefs.Mesa
-- last edited by Johnsson, March 21, 1977 3:17 PM

DIRECTORY
  InlineDefs: FROM "inlinedefs";

TimeDefs: DEFINITIONS =
BEGIN

StartWeekDay: PRIVATE INTEGER = 1;      -- Jan. 1, 1901 was a Tuesday
DstStart: PRIVATE INTEGER = 115;        -- on or after Apr. 24
DstLast: PRIVATE INTEGER = 299;        -- on or after Oct. 25
BaseYear: PRIVATE INTEGER = 1901;
DaysInFourYears: PRIVATE INTEGER = 4*365+1;

-- DefaultTime: PackedTime = [0,0];

PackedTime: TYPE = InlineDefs.LongCARDINAL;

UnpackedTime: TYPE = RECORD [
  year: [0..2050],          -- base year is 1901
  month: [0..12],           -- January = 0
  day: [0..31],              -- first day of month = 1
  hour: [0..24],
  minute: [0..60],
  second: [0..60],
  dst: BOOLEAN];           -- currently always returned FALSE

CurrentDayTime: PROCEDURE RETURNS [PackedTime];
UnpackDT: PROCEDURE [PackedTime] RETURNS [UnpackedTime];
InvalidTime: ERROR;
PackDT: PROCEDURE [UnpackedTime] RETURNS [PackedTime];
AppendDayTime: PROCEDURE [STRING, UnpackedTime]; -- 12-JAN-77 12:34
- DayOfWeek: PROCEDURE [PackedTime] RETURNS [[0..7]]; -- Monday = 0

END...
```